



The Leader in Industrial Magnetic Filtration

CASE STUDY

Loading Terminal Compressor Lube Oil
 Targa Resources
 Galena Park, TX 2016

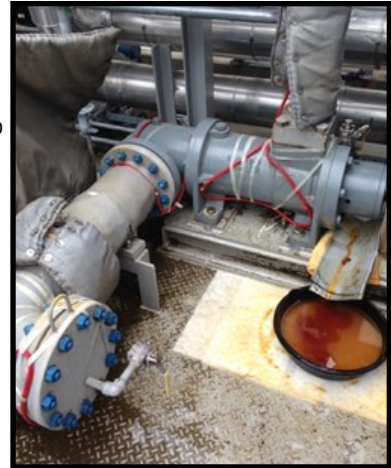
ROI REALIZED IN 6 DAYS

PROBLEM:

Large Howden Compressors utilize injected oil to seal screws, reduce slip and increase efficiency. In doing so, they also collect large volumes of Black Powder wear contamination that is present in the feedstock (butane and propane) entering the facility.

The feedstock passing through the compressor is contaminated with Black Powder, which damages the seals and allows the Black Powder to bypasses into the lube oil. This results in damage to pump components and compressor valves.

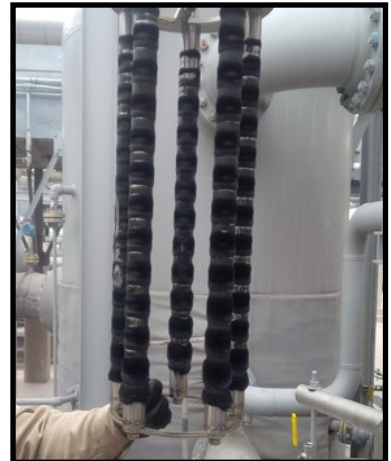
Cone strainers are ineffective in removing Black Powder wear contamination as it occurs in large quantities of particle sizes below 5 microns. This Black Powder builds up in the system degrading lube oil and eliminating its lubricating properties.



Seal leakage from the IMO lube oil pumps.

VARIABLES:

Fluid	Lube Oil
Pressure	350 psi
Flow Rate	400 gpm
Black Powder Separator Installation	Suction side of lube oil pump



Black Powder contamination captured after the loading of 3 vessels (3,320,000 gallons of lube oil).

RECOMMENDATION:

To be proactive in dealing with this contamination it is recommended to install a Magnetic Separator on feedstock pipelines to remove Black Powder before it enters facilities, thereby protecting all systems in the process.

The separator vessel was designed to replace the traditional cone strainer by dropping into the existing piping.

Canadian Head Office: 4344 12th Street SE Calgary AB T2G 3H9, Canada

Tel: (403) 212-1810 E-mail: Marketing@BlackPowderSolutions.com Website: www.BlackPowderSolutions.com